What Is Claimed Is:

- A hollow rack shaft for a steering system, having: two rack teeth groups respectively formed by plastic working and located longitudinally apart from each other.
- 2. A hollow rack shaft according to Claim 1, wherein: said rack teeth groups are out of phase by an angle around the axis of said shaft.
- 3. A hollow rack shaft formed of one plate workpiece for a steering system, wherein:

two rack teeth groups respectively formed by plastic working and located longitudinally apart form each other.

- 4. A hollow rack shaft according to Claim 3, wherein: said rack teeth groups are out of phase by an angle around the axis of said shaft.
- 5. A hollow rack shaft according to Claim 4, wherein: said rack teeth groups are sequentially formed by die forming.
- 6. A hollow rack shaft according to Claim 4, wherein: said rack teeth groups are simultaneously formed by die forming.
- 7. A method of manufacturing a hollow rack shaft for a steering system having two rack teeth groups, said groups being located longitudinally apart form each other and out of phase by an angle around the axis of said shaft, wherein:

said shaft is formed of one plate workpiece having two areas; $% \label{eq:control_problem} % \label{eq:control_problem} %$ and

the center lines in the longitudinal direction at said areas are offset corresponding to phase difference between said rack teeth groups.